



## **A High End Workshop (Karyashala) On**

# **Advances in Biological Wastewater Treatment Methods: Teaching and Learning Strategies**

**5<sup>th</sup> – 11<sup>th</sup> February 2024**

## **Call for Registration and Participation**

### **Coordinator:**

**Dr. Surajbhan Sevda**

### **Organized by**

**Department of Biotechnology  
National Institute of Technology  
Warangal– 506 004, India.  
in association with**

**Mission “Skill Development (ABHYAAS)”  
from  
Science and  
Engineering Research Board (SERB), New  
Delhi**



### **Overview of the workshop:**

This workshop would help in bringing out new simplified and effective teaching techniques of environmental biotechnology and concepts for a thorough understanding of the students. The programme would help the participants in understanding the importance of water and wastewater reuse, and treatment in various applications of the industry and daily public life. Participants would learn the recent advancements in biological wastewater treatment strategies used in water treatment plants. Participants could learn the analysis methods used for water and wastewater characterises. Participants could understand the challenges and prospects in environmental biotechnology and could make students realize possible outcomes/errors in their laboratory experiments.

### **Objectives of the Workshop:**

- To update the participants with the recent advances in new biological treatment methods for drinking water and wastewater treatment.
- To enhance the understanding of the new methods and materials used for water reuse, drinking water treatment, industrial and municipal wastewater treatment.
- To empower the teaching and learning capabilities of the participants with emphasis on improvisation of their teaching skills of advanced topics of Environmental Biotechnology.

- To equip the participants with the knowledge of the experimental technique for teaching and research in Environmental Biotechnology.

### **Topics in the Workshop (Hand on experience):**

- Biological Wastewater Treatment
- Bioelectrochemical System
- Water Treatment and Reuse
- Advance analytical methods in water and wastewater analysis
- Principles and methods of technical teaching and learning management system

### **Resource Persons:**

Eminent researchers and faculty members from different departments of NIT Warangal

### **Registration is open to:**

- Research Scholars aspiring for positions in technical teaching in the areas of Biochemical Engineering, Environmental Engineering, Biotechnology, and related interdisciplinary areas.

### **How to Apply:**

Eligible candidates may register by using the following link:

[https://docs.google.com/forms/d/e/1FAIpQLSfsPTabyiYjVP5eydir7hLP5qcFwG1exQQtjQkaUSwHKBBdSg/vi\\_wform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSfsPTabyiYjVP5eydir7hLP5qcFwG1exQQtjQkaUSwHKBBdSg/vi_wform?usp=pp_url)

The programme is conducted in person, at NIT Warangal . The number of participants in the workshop is limited to 25. Candidates are advised to apply early to avoid disappointment.

**No Registration Fee:**

**Free accommodation and food**

**Travelling allowance will be included**

**Who can Attend:**

- PG and Ph.D. students of areas of Biochemical Engineering, Environmental Engineering, Biotechnology, Waste Management and related interdisciplinary areas.
- Recently completed PG scholars are also eligible to apply. **Candidates who have completed Ph.D. will not be considered.** The number of seats is limited to 25 (15 PG + 10 Ph.D.)

**Registration Application Deadline:**

10<sup>th</sup> January 2024

Announcement to Shortlisted Candidates:

16th January 2024

Application Link:

[https://docs.google.com/forms/d/e/1FAIpQLSfsPTabyiYjVP5eydir7hLP5qcFwG1exQQtjQkaUSwHKBBdSg/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSfsPTabyiYjVP5eydir7hLP5qcFwG1exQQtjQkaUSwHKBBdSg/viewform?usp=pp_url)

### **Brief profile of the Department of Biotechnology:**

The Department of Biotechnology commenced with B.Tech program in Biotechnology (2006), also offers M.Tech and doctoral program in Biotechnology. The Department has highly motivated, experienced faculty members carrying out research in key areas of biotechnology. At present 18 PhD scholars are carrying out their research work under the guidance of faculty in the department. Currently the department has more than 10 research projects funded by DBT/DST/ICMR/CSIR, Govt. of India and also one international High Performance Computing consortium Project on Covid19.

### **About NIT Warangal:**

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top 20 technical education institutions in India. There are 14 departments offering eight undergraduate and 31 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories.

### **About Warangal:**

Warangal is the second largest city of the new state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202). Warangal is renowned for its rich historical and cultural heritage. It was the seat of erstwhile Kakatiya dynasty. It is a seat of tourist attractions with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Laknavaram Lake located in a radius of 30 kms.



### **Event Organizer**

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